

Matthew Meza

8960 Monte Oro Drive, Las Vegas, NV 89131
mezam11@unlv.nevada.edu 702-487-0850

Senior BSEE, UNLV Class of 2016. Dependable college student. Current Undergraduate Research Assistant and former Electromagnetics Intern for Kyma Technologies. Electronics hobbyist, focusing on practical projects such as controllers for automobiles, audio amplifiers, speakers, etc. Accomplished guitarist and guitar teacher. Mechanically inclined, works on cars as well as participates in sanctioned racing (autocross).

Experience

Electronics Designer and Consultant - Kroyer Racing Engine **2015 – Present**

Design electronic circuits for competitive automotive applications such as controllers, daughter-boards for aftermarket ECU's, and power equalizing circuits. Test alternators, voltage regulators, sensors, chassis dynamometer modules. Troubleshoot other engine electronics, sensors, and equipment for testing

Undergraduate Research Assistant – UNLV **2015 - Present**

Under the supervision of R. Jacob Baker, assist in research projects dealing with Delta-Sigma modulators, PCB design for chip testing, FPGA's, Thermo-electric coolers/controllers, peltier devices, and avalanche photo diodes. Currently working on implementing a K-Delta-1-Sigma Modulator on an FPGA board for use as a low cost analog to digital converter and on performance characterization of chips with cooling.

Electro-Magnetics Intern – Kyma Technologies **2013 - 2015**

As an intern, assisted in commercializing the EM-Dot, an electromagnetic sensor, and readying it for commercial distribution. Built and designed test stands for the EM-Dot, managed data acquisition, data processing and analysis, Matlab programming, and product demonstration. The EM-Dot launched January 5th, 2015.

Education

Senior in Electrical Engineering / University of Nevada Las Vegas **2012 - Present**

Deans List Award recipient. Academic interests include controls, analog design, signals and systems, mixed signal design, embedded systems, and electro-magnetics. Member of Tau Beta Pi, the National Society of Hispanic Engineers, Institute of Electrical and Electronics Engineers, and President of Practical Electronics.

Extracurricular

President of Practical Electronics **2014 – Present**

Educate members who come from different fields of study of the practical application of electronics. Members help design and build projects for personal use such as bookshelf speakers, headphone amplifiers, and high-speed differential probes.

Private Guitar Teacher – Las Vegas **2010 – Present**

I teach three to five students a week how to read and play sheet music along with various techniques and music theory. Students are taught a variety of music styles ranging from jazz and classical guitar to current pop music.

Skills

Native Spanish-speaker; Data Processing and Analysis; MATLAB; Automotive Mechanics/Racing; Linux/Windows/Mac; Microsoft Office; Embedded Systems; Electronics; Microcontrollers.

References and work samples available upon request